


Work Order ID 111870

Thursday, January 23, 2014 4:12:51 PM

111870

Page 1

Item ID: D4634-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Fwd, Center Ceiling Panel Assembly
Start Date: 1/23/2014 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 1/29/2014 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan:  Date: 1/13/14 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D4634	E

100

0.00

100

HandThermo

Memo

0.00

Hand Finishing Thermoforming

Pick Kit

①

SAD 1/14/14

110

0.00

110

Small Fab

Memo

0.00

Small Fab

1- Assemble as per Dwg D4634-041

2- install No Smoking & seat belt symbols

3- Install led lights

4- Install Air valves

5-Install Wiring Harness

5-Install wiring harness

①

SAD 1/14/14

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC5- Inspect part completeness to step on W/O	0.00							
120									
QC	Memo	0.00							
Quality Control									
130	Identify as per dwg & Stock Location: <i>plg</i>	0.00							
130									
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

MLJ 14-01-29

LL 14-01-29

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence
		<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

Picklist Print

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Page 1

Work Order ID: 111870

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Parent Item: D4634-041

D4634-041

Parent Item Name: Fwd, Center Ceiling Panel Assembly

Start Date: 1/23/2014

Required Date: 1/29/2014

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev. A 12/08/09 New Issue DL
 12/11/08 Document release DL VERIFIED BY:JLM
 Dwg Update DL verf: DD
 DL
 IPP Rev B
 IPP Rev C 13/07/09
 IPP Rev D Dwg Update 13/12/23
 IPP REV E Dwg update 14/01/20

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D4743-1		Manufactured	No			100	Each	14.0000	2	2			
D4743-1									**				
Speaker Grill													

Location Loc Qty Loc Code

ST122
 111220

14
 14

2

MS21044-N08		Purchased	No			100	Each	201.0000	8	8			
MS21044-N08									**				
Nut													

Location Loc Qty Loc Code

ST315
 123741
 m127813

201
 51
 150

8

MS24693-BB50		Purchased	No			100	Each	84.0000	8	8			
MS24693-BB50									**				
SCREW													

Location Loc Qty Loc Code

ST300
 m127924

84
 84

8

Picklist Print

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Work Order ID: 111870

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Parent Item: D4634-041

D4634-041

Parent Item Name: Fwd, Center Ceiling Panel Assembly

Start Date: 1/23/2014

Required Date: 1/29/2014

Start Qty: 1.00

Required Qty: 1.00

NAS1149DN832J

Purchased

No

100

Each

3,048.000

8

8

NAS1149DN832.J

Washer

**

SAD 14/01/28

Location

Loc Qty

Loc Code

ST293

1000

M127813

1000

st510

352

124555

352

ST510a

1696

M126319

696

M127255

1000

D4634-141

Manufactured

No

100

Each

0.0000

1

1

D4634-141

Fwd, Center Ceiling Replacement Panel Assembly

D4646-1

Manufactured

No

100

Each

60.0000

2

2

D4646-1

Plenum Cap Assembly

**

SAD 14/01/28

Location

Loc Qty

Loc Code

ST116

60

103832

60

D4652-1

Manufactured

No

100

Each

191.0000

2

2

D4652-1

Air Valve, 1.16 Id Disk Type

**

SAD 14/01/28

Location

Loc Qty

Loc Code

ST099

191

111311

191

D4728-047

Manufactured

No

100

Each

0.0000

1

1

D4728-047

Advisory Light, Fwd

**

SAD 14/01/28

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Shop Packet Print

Page 2

Picklist Print

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Page 3

Work Order ID: 111870

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Parent Item: D4634-041

D4634-041

Parent Item Name: Fwd, Center Ceiling Panel Assembly

Start Date: 1/23/2014

Required Date: 1/29/2014

Start Qty: 1.00

Required Qty: 1.00

D4728-051 Manufactured No

100 Each 0.0000 1 1

D4728-051

Cabin Lights #1

BW200

**

SAD 14/01/28

PLT1.5M-M Purchased No

100 Each 945.0000 8 8

PI T1 5M-M

Tie Wrap

**

SAD 14/01/28

Location

Loc Qty

Loc Code

ST389

945

124363

2

m126551

943

50-009-2 Purchased No

100 Each 83.0000 1 1

50-009-2

Grommet

**

SAD 14/01/28

Location

Loc Qty

Loc Code

ST378

83

122594

1

m128022

82

2351-20-27-C3C Purchased No

100 Each 72.0000 1 1

2351-20-27-C3C

STUD

**

SAD 14/01/28

Location

Loc Qty

Loc Code

ST396

72

m126740

30

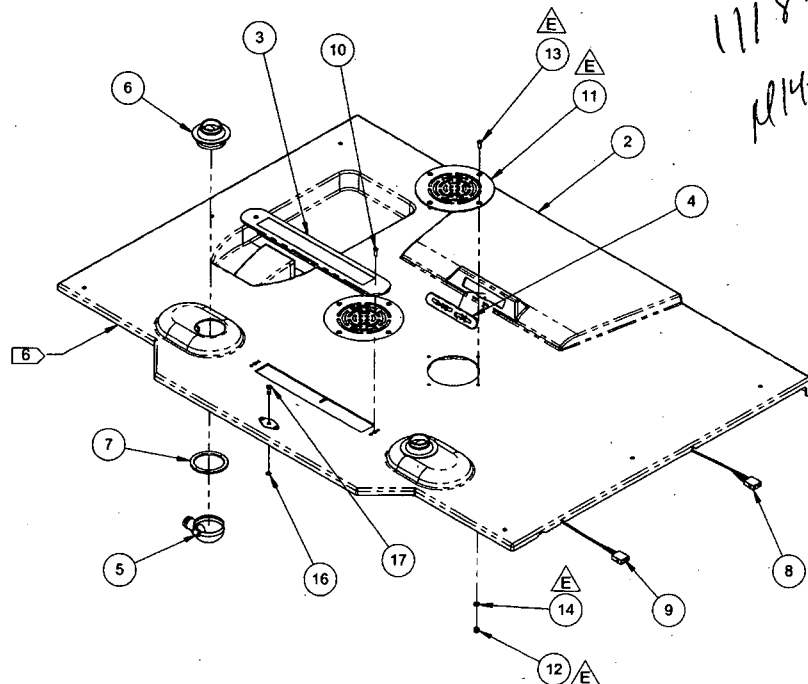
m127922

42

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Shop Packet Print

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D4634-041 FWD, CENTER CEILING PANEL ASSY

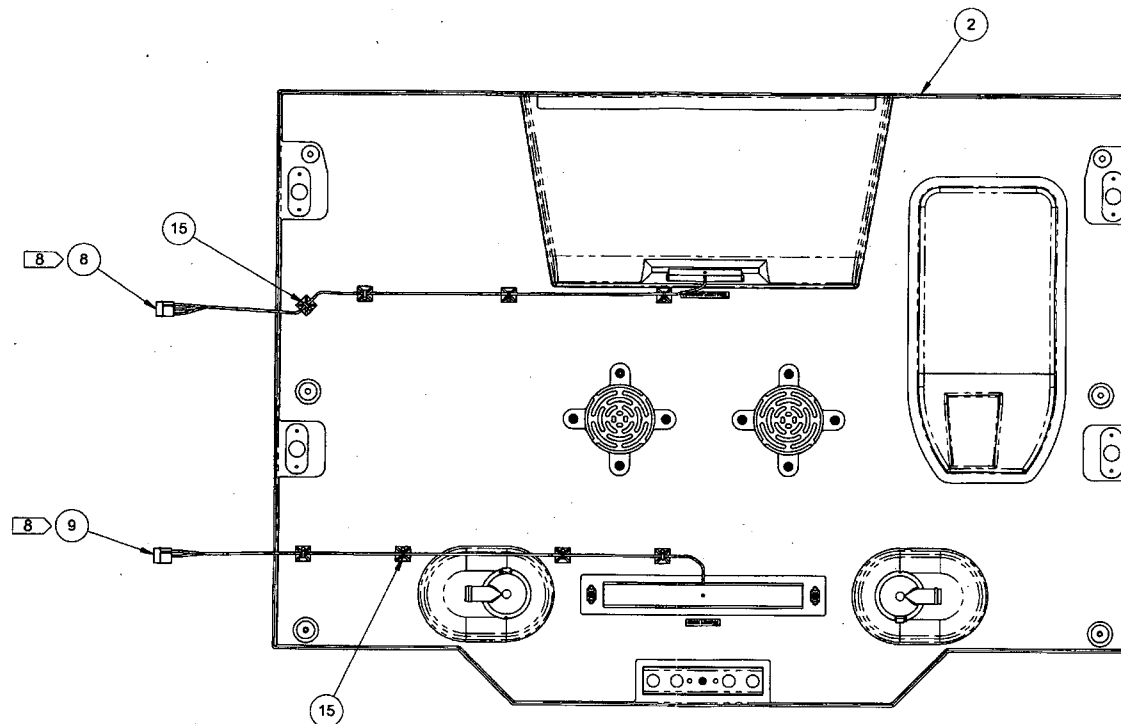
NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.4, ON SMOOTH SIDE
- 7) WEIGHT: 7.0 lbs
- 8) INSTALL D4728-047/-051 WIRE HARNESS PER QSI 048

ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION
1	X	D4634-041	FWD, CENTER CEILING PANEL ASSY
2	1	D4634-141	FWD, CENTER CEILING REPLACEMENT PANEL ASSY
3	1	D4638-1 (REF)	LED LIGHT (REF PART OF D4728-051)
4	1	D4645-1 (REF)	NO SMOKING & FASTEN BELT LIGHT (PART OF D4728-047)
5	2	D4646-1	PLENUM CAP ASSEMBLY
6	2	D4652-1	AIR VALVE
7	2	D4652-3 (REF)	MOUNTING NUT (PART OF D4652-1)
8	1	D4728-047	ADVISORY LIGHT (FWD) HARNESS ASSEMBLY
9	1	D4728-051	CABIN LIGHT #1 HARNESS ASSEMBLY
10	2	N/A (REF)	SCREW (PART OF D4728-051)
11	2	D4743-1	SPEAKER GRILL
12	8	MS21044-N08	NUT
13	8	MS24693-BB50	SCREW
14	8	NAS1149DN832J	WASHER
15	8	PLT1.5M-M	TIE-WRAP (OR PLT1.5M-C)
16	1	50-009-2	GROMMET
17	1	2351-20-27-C3C	STUD

RELEASED
2014-01-22

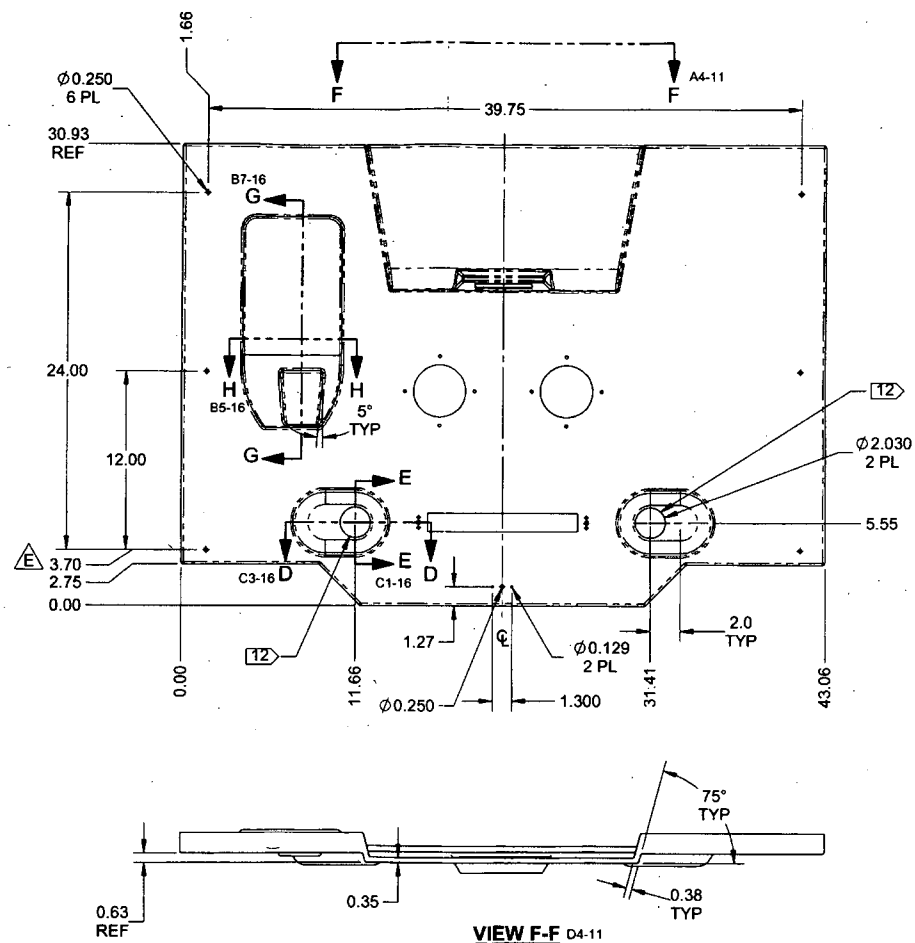
E	REVISED BOM (ZN C4-1, C4-3, D4-5, C4-7, C4-8, C4-9); ADDED NOTE 11) (ZN D5-7, A8-7, D5-8, A8-8, D7-9, A8-9); 3.70 WAS 3.83 (ZN C6-11); 1.88 WAS 2.00 (ZN D7-13); 6.13 WAS 6.25 (ZN B6-15); REVISE DETAIL B (ZN A8-16)	RF	14.01.09
D	ADDED PLT1.5M-M (ZN C4-5, C6-6); D5021-1 (ZN D4-7, D5-7); D5021-3 (ZN D4-8, D5-8); D5021-5 (ZN D4-9, B7-9); MPNY-750S-9-C (ZN D4-9, B7-9); Ø0.129 (ZN B4-11, B4-13); DETAIL "U" (ZN C2-17); 3.83 WAS 3.87 (ZN C6-11); 2.00 WAS 2.02 (ZN D8-13); REVISE NOTE 6) & 10) (ZN A8-7, A8-8, A8-9); & NOTE 1) (ZN A8-10, A8-12, A8-14); 3.80 WAS 3.84 (ZN D4-17, B8-17); REMOVED D4694-7/-041/-043/-045/-047, D4647-3/-7/-9; DIMENSION SHIFTED DUE ADDING D5021-1/-3/-5; Ø0.250 WAS Ø0.206 (ZN D6-11, C3-13 & D6-15)	RF	13.12.09
C	REVISE GENERAL NOTES (ZN A8-7, A8-8, A8-9) & BOM (ZN D4-1, D4-3, D4-5, D4-7, D4-8); Ø0.206 WAS Ø0.207 (ZN D6-11, C3-13, C6-15) ADD DIM. (ZN B6-7, B7-7, D7-8, & D6-8)	RF	13.06.18
B	ADDED D4634-141/-143/-145 (ZN B4-7, B4-8, B4-9); REVISE D4634-041/-042/-043/-044 PART LIST & GENERAL NOTES; ADD DETAILS R,S,T SHT 10, 12, 14, 16, 17	RF	12.11.30
A	NEW ISSUE	RF	12.07.25
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	RF		
CHECKED	DC		
MFG. APPR.	AL		
APPROVED	AS		
DE APPR.	TH		
DATE	14.01.09		
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D4634-041 FWD. CENTER CEILING PANEL ASSY
AUXILIARY VIEW

RELEASED
2014-01-22
MP

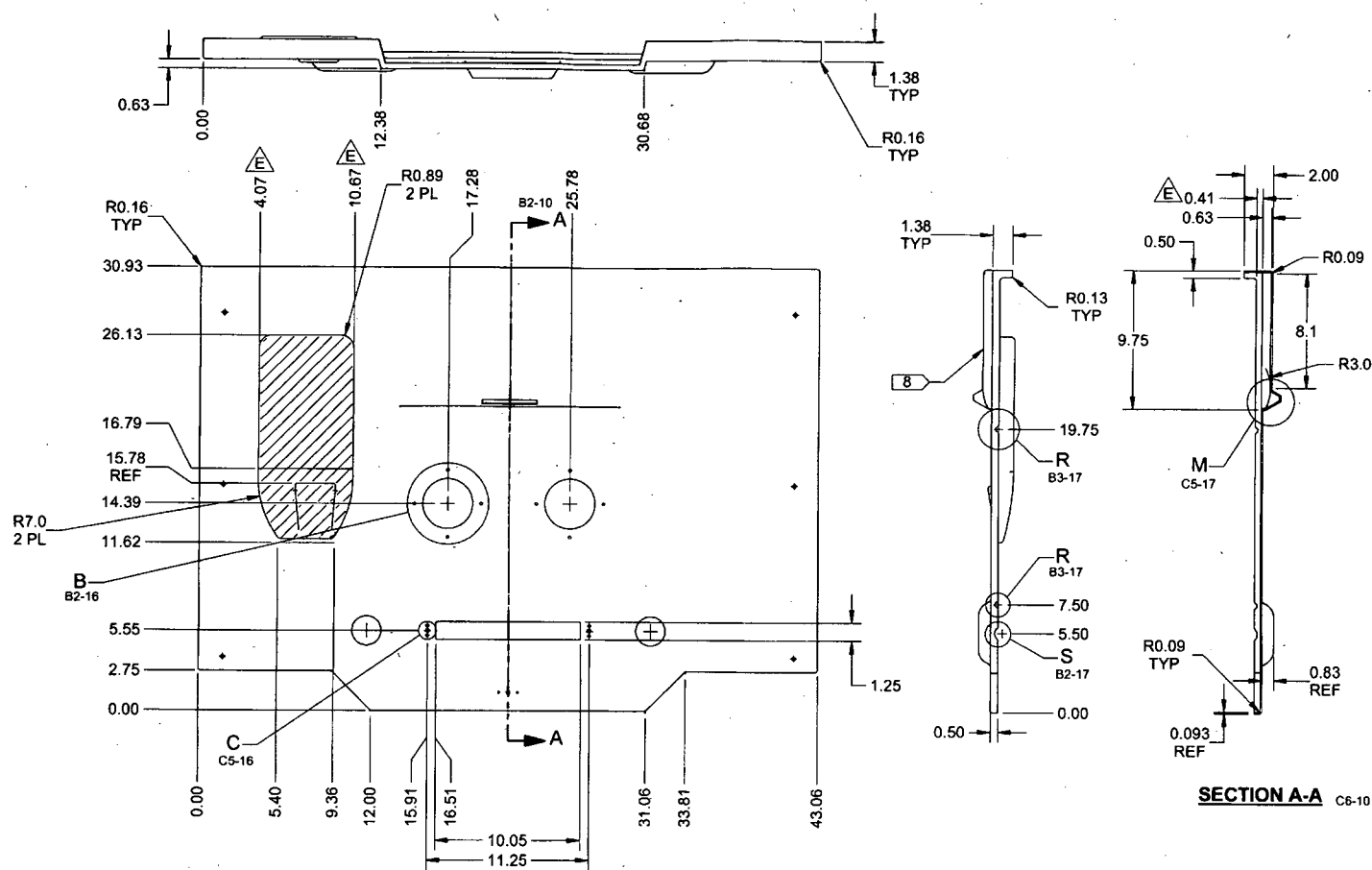
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	BC	DRAWING NO.	REV. E
MFG. APPR.	BC	D4634	SHEET 2 OF 17
APPROVED	BC	TITLE	SCALE
DE APPR.	BC	CENTER CEILING PANELS	NTS
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D4634-1 FWD, CENTER CEILING PANEL
AUXILIARY VIEW

RELEASED
2014-01-22

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>BC</i>	DRAWING NO.	REV. E
MFG. APPR.	<i>BC</i>	D4634	SHEET 11 OF 17
APPROVED	<i>BC</i>	TITLE	SCALE
DE APPR.	<i>BC</i>	CENTER CEILING PANELS	NTS
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SECTION A-A C6-10

NOTES:

- 1) MATERIAL: F6006 SUEDE/POLISHED GY5B133 LIGHT GREY LEXAN SHEET 0.093 THICK
(REF DART SPEC MLEXS.093-F6006-07)
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 5.65 lbs
- 8) TEXTURE ON THIS SIDE
- 9) 0.14 RADIUS NOT SHOWN FOR CLARITY
- 10) DRILL & TRIM D4634-1 PER TOOL DT9836
- 11) THERMOFORM PER QSI 022 USING DT9844 TOOL
MIN. THICKNESS AFTER FORMING:
SHADED AREA = 0.020
EDGES = 0.060
ELSEWHERE = 0.070
- 12) LOCATE $\varnothing 2.030$ AT CENTER OF PROTRUDED SURFACE AS SHOWN

D4634-1 FWD, CENTER CEILING PANEL

RELEASED
2014-01-22

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	PL	DRAWING NO.	REV. E
MFG. APPR.	PL	D4634	SHEET 10 OF 17
APPROVED	PL	TITLE	SCALE
DE APPR.	PL	CENTER CEILING PANELS	NTS
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